

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problems Mailbox.**

28/1  
31 Fig

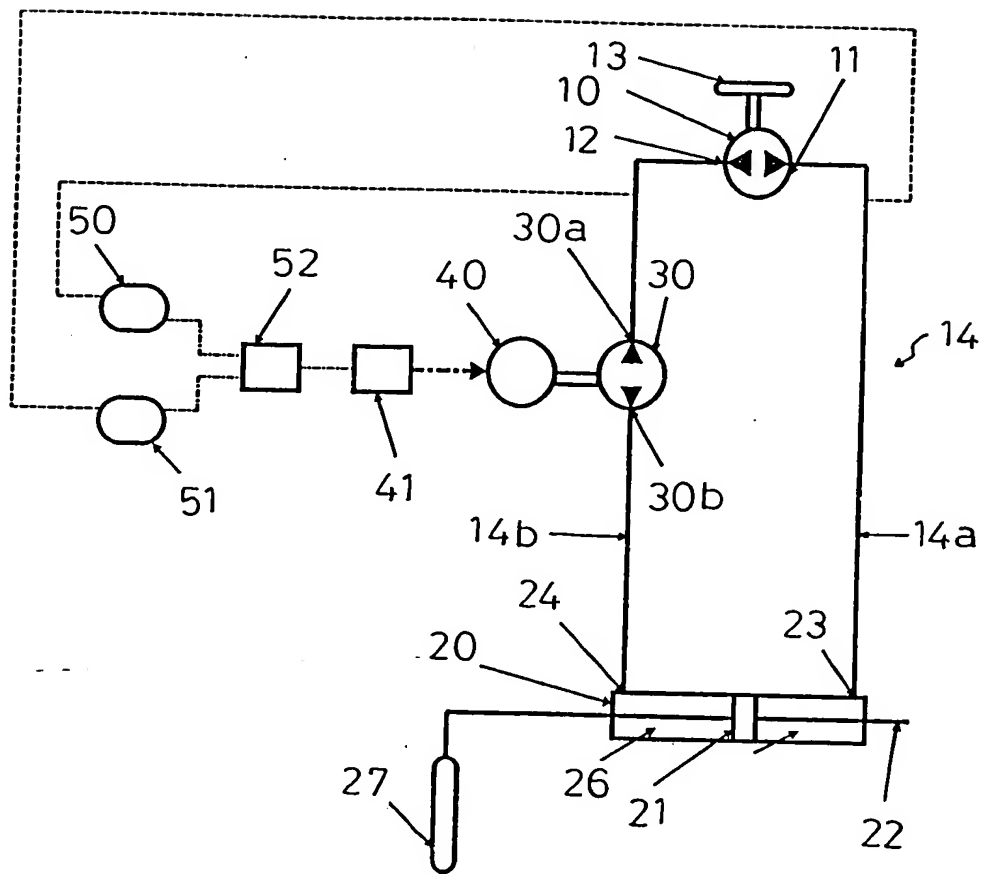


FIG. 1

10070917.032002

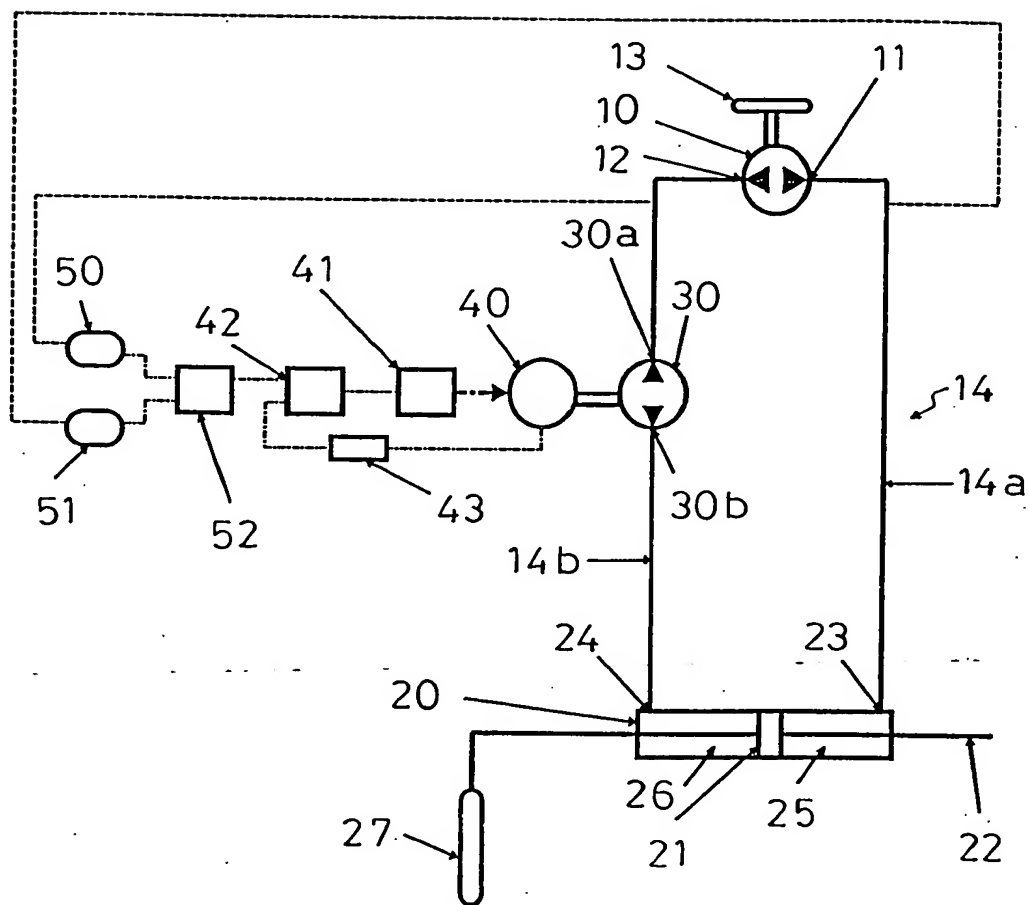


FIG. 2

10070917-000002

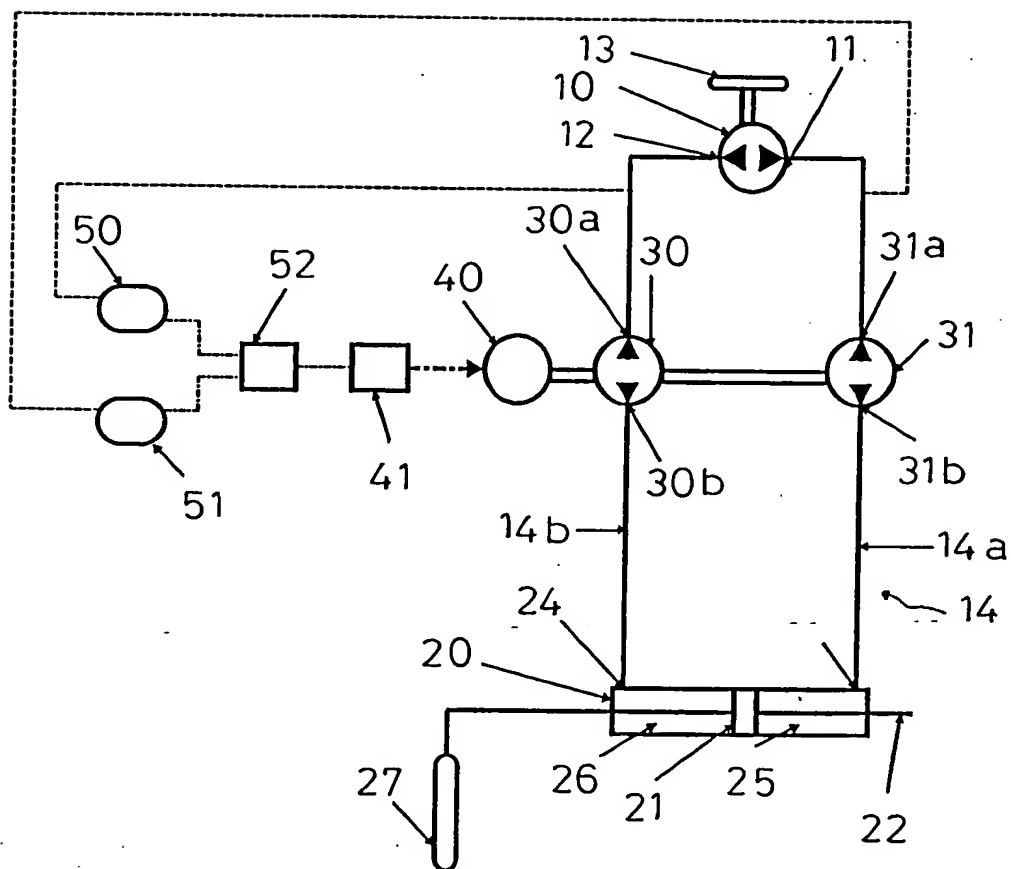


FIG. 3

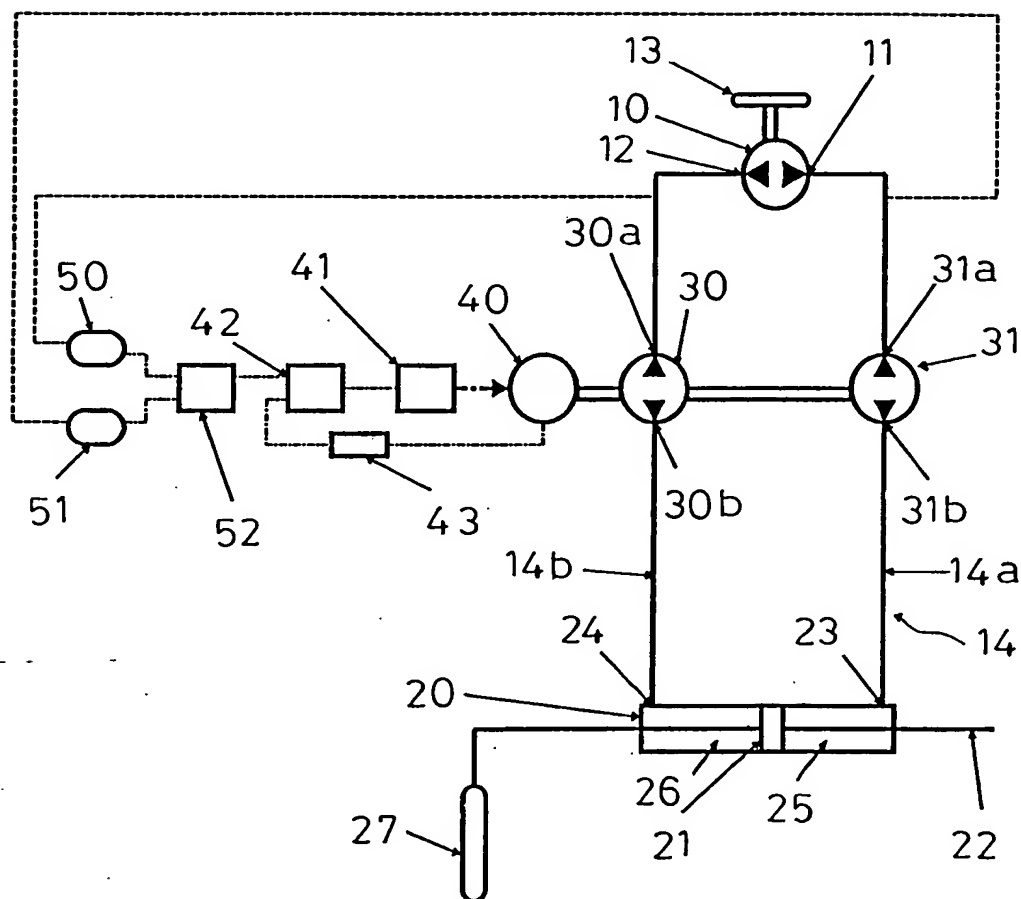


FIG. 4

2025071502007

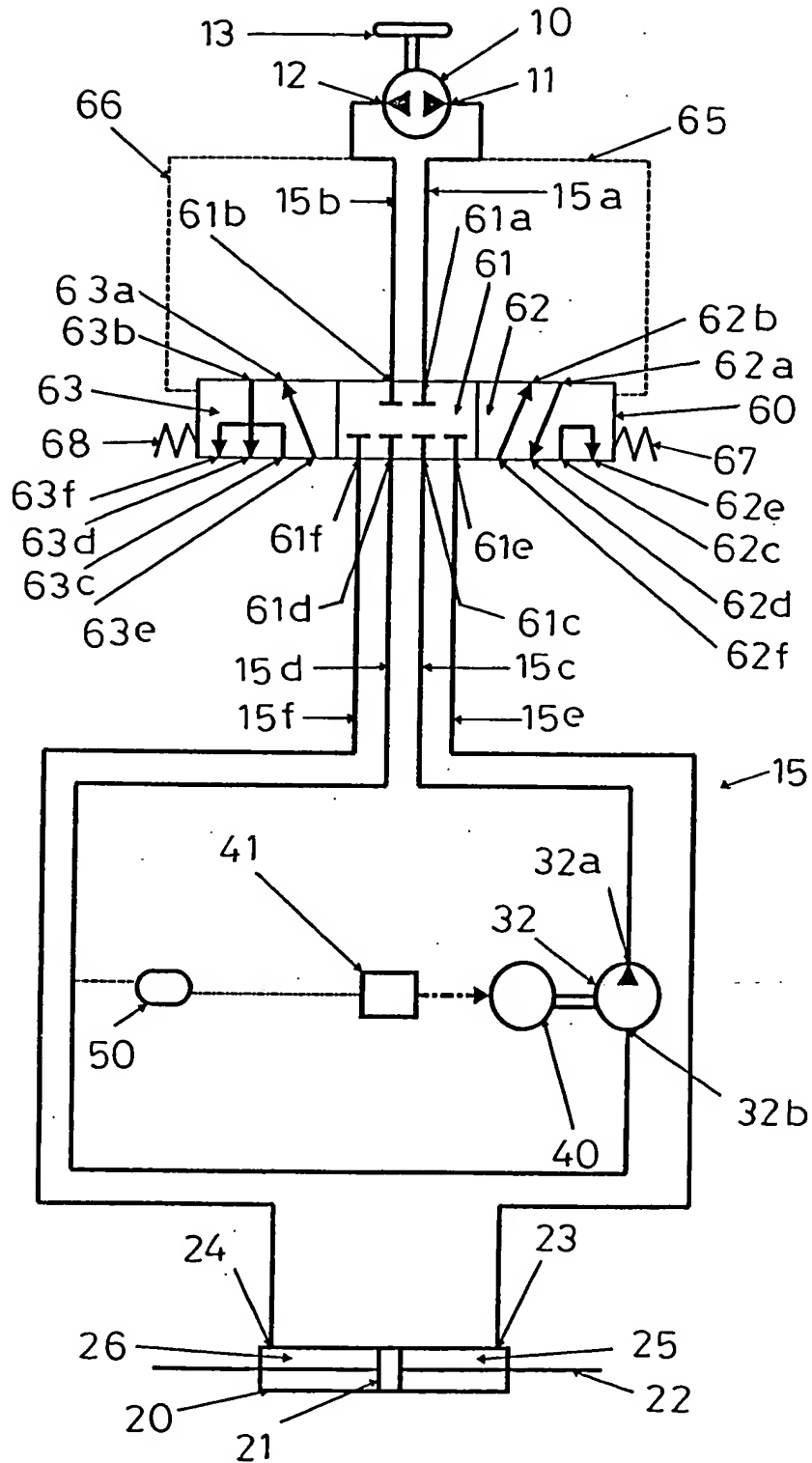


FIG. 5







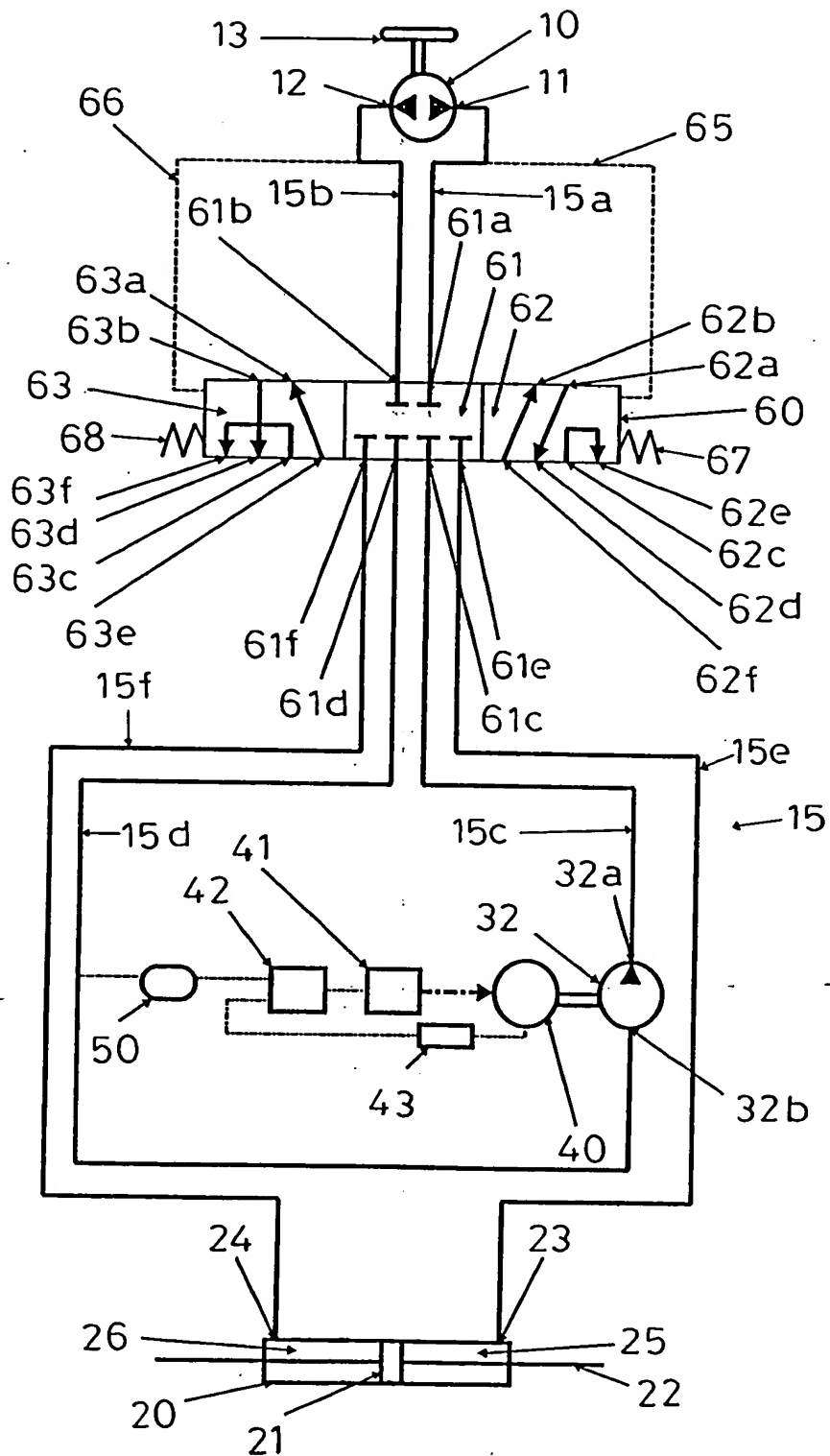


FIG. 8

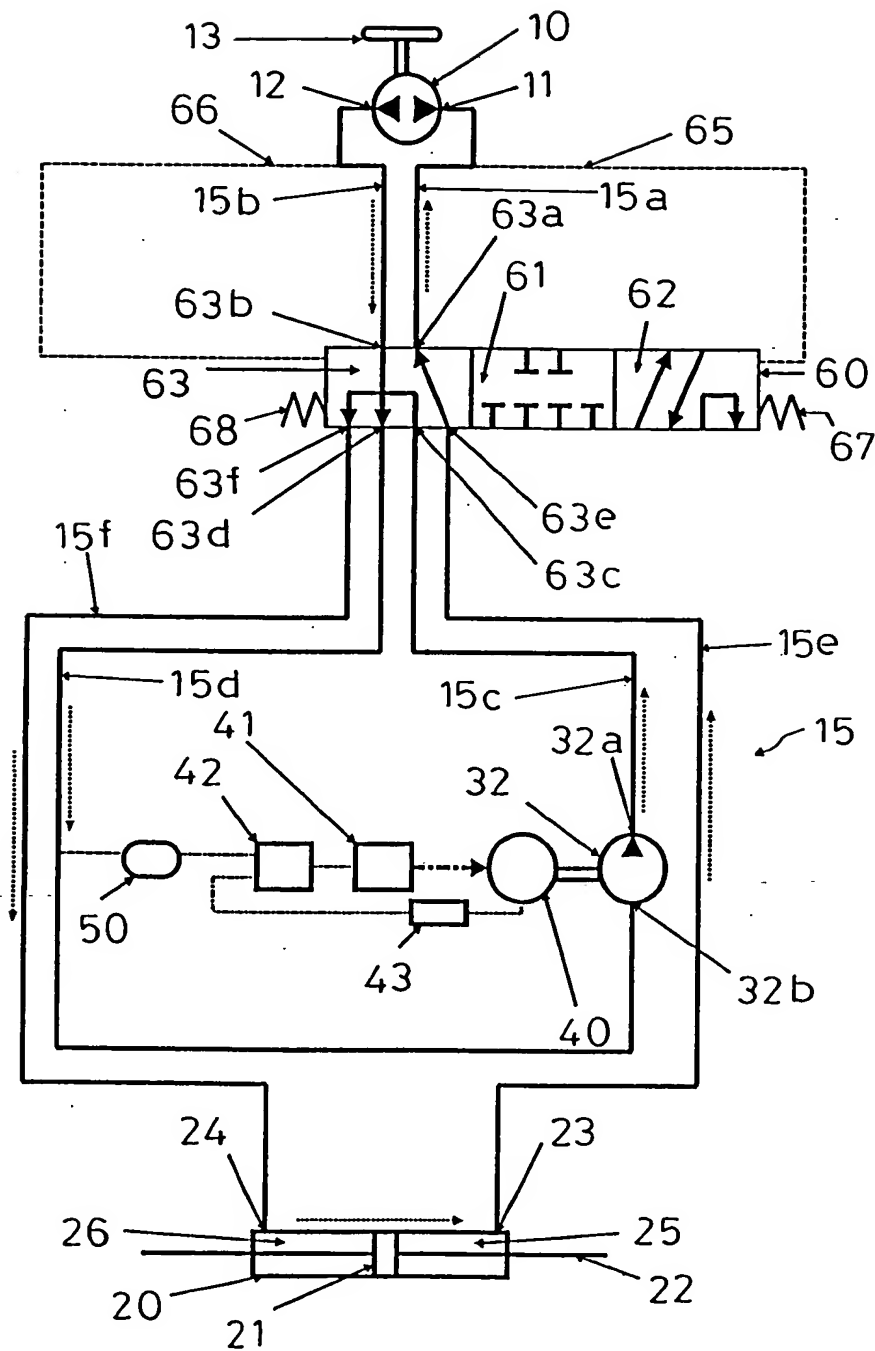


FIG. 9

# 2025

10/28

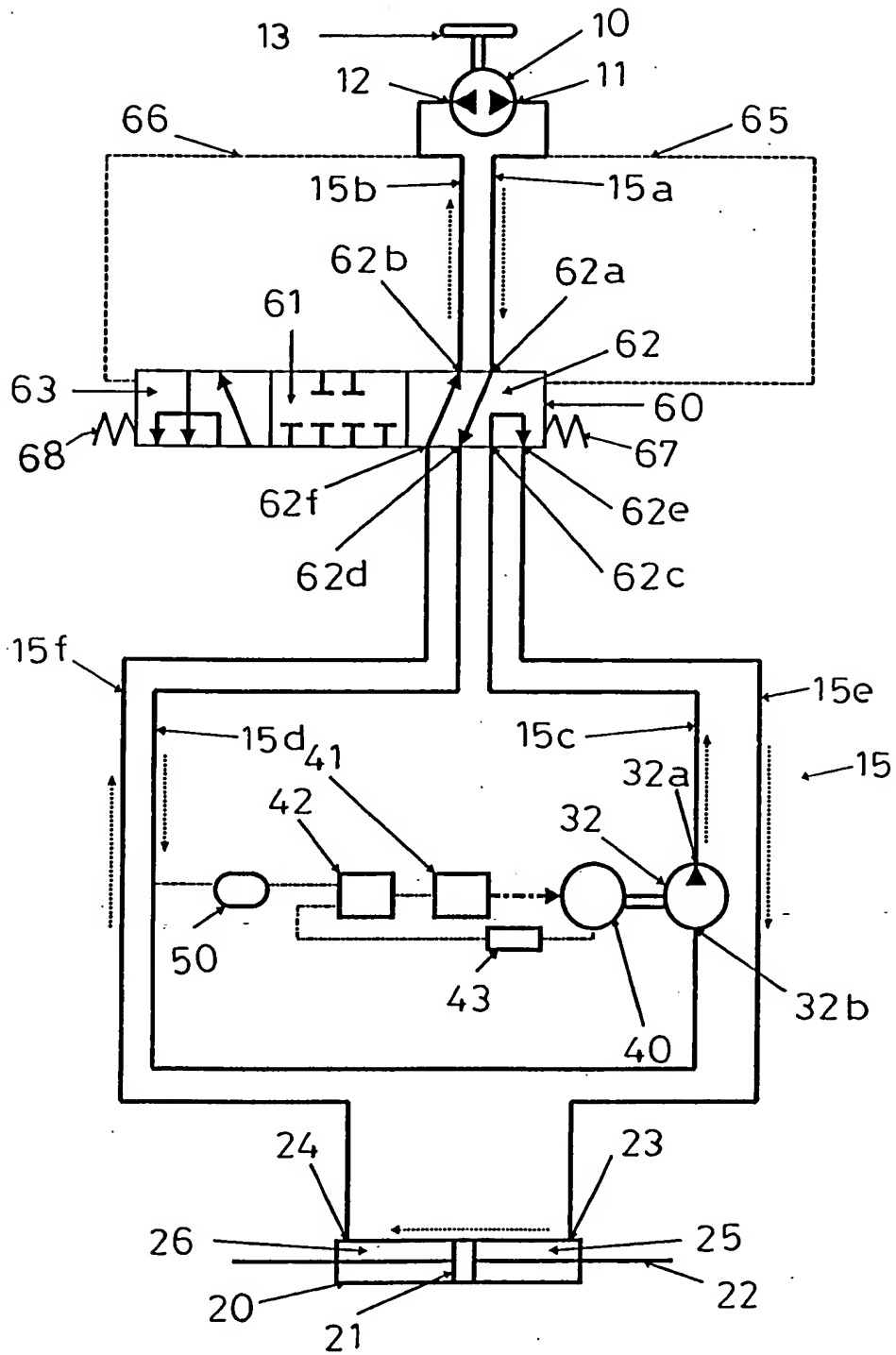


FIG. 10

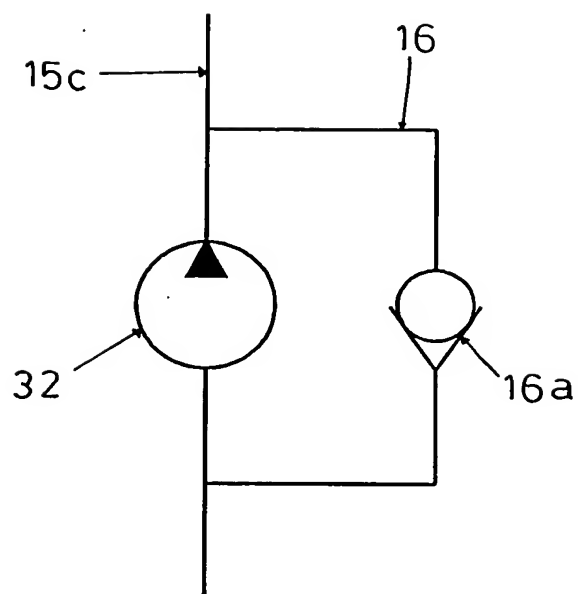


FIG. 11

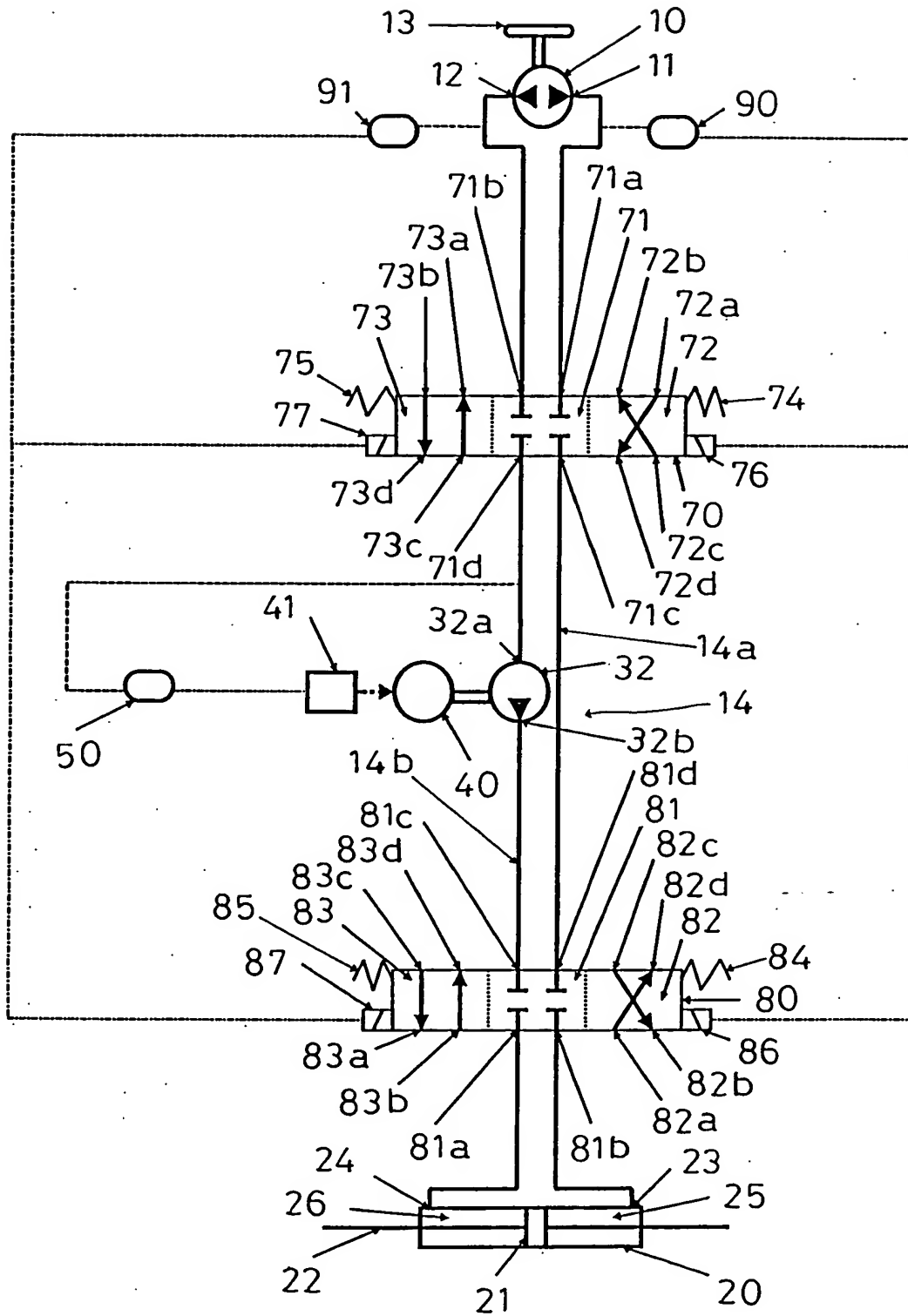


FIG. 12

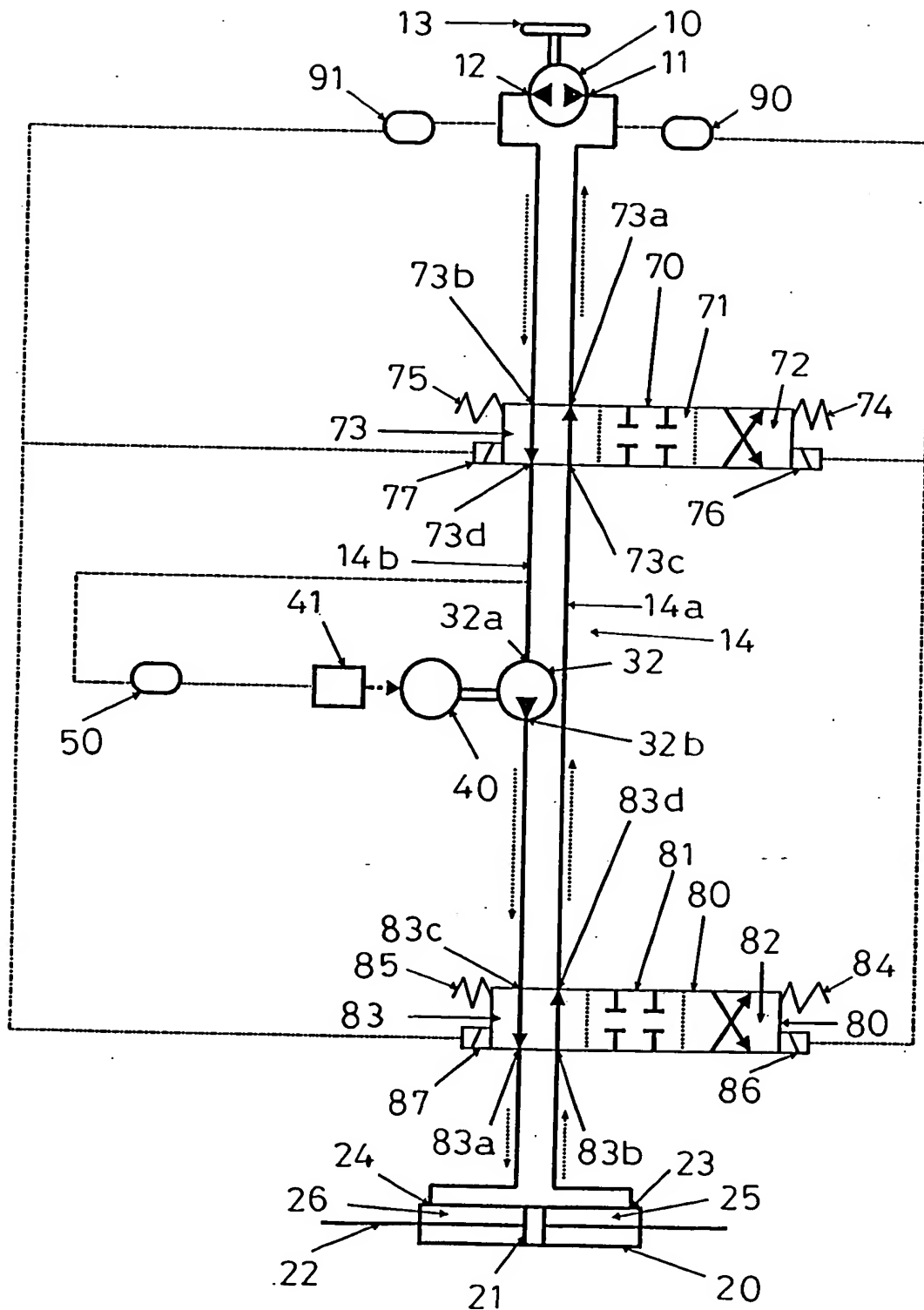


FIG. 13

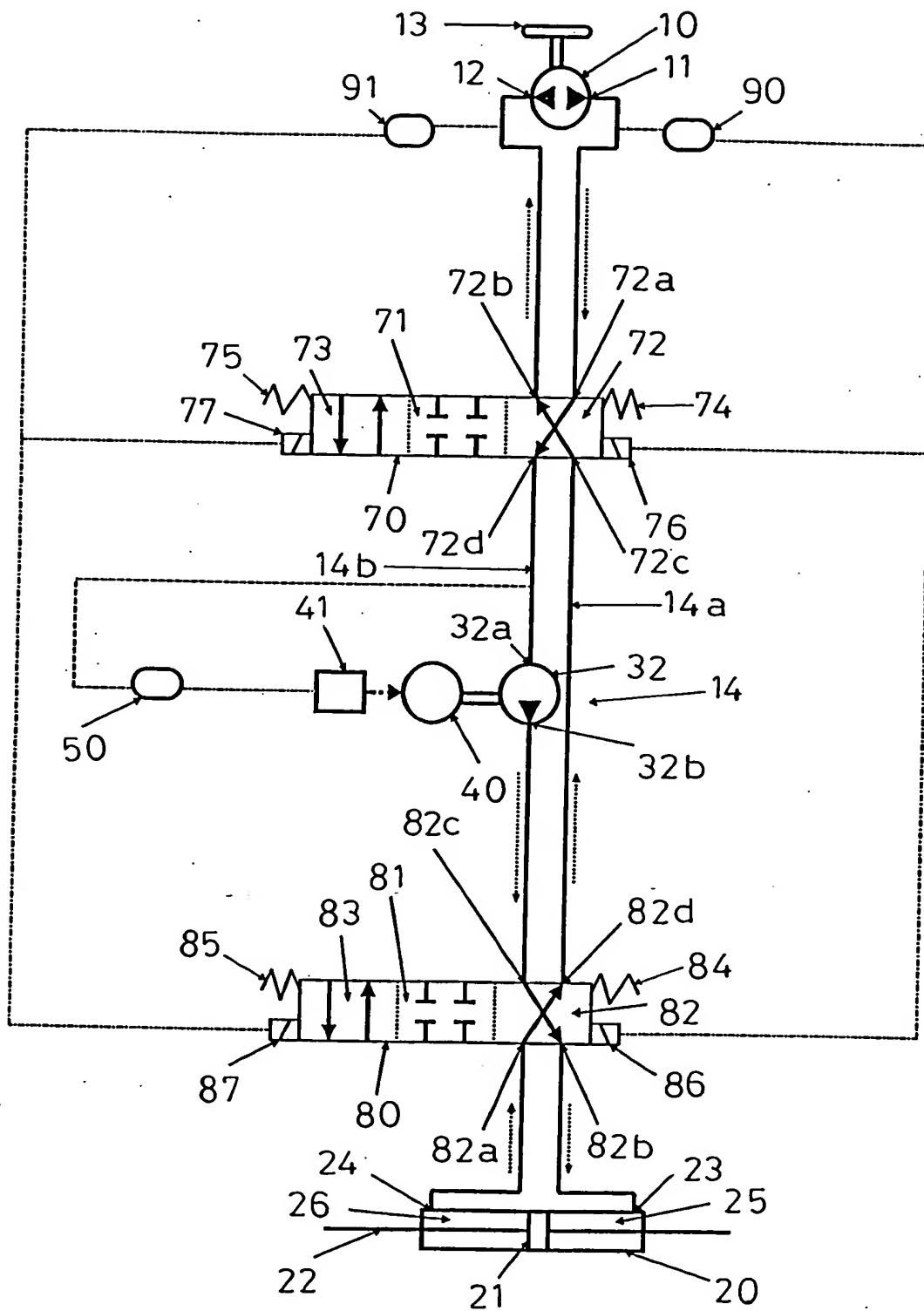


FIG. 14

10070917-032002

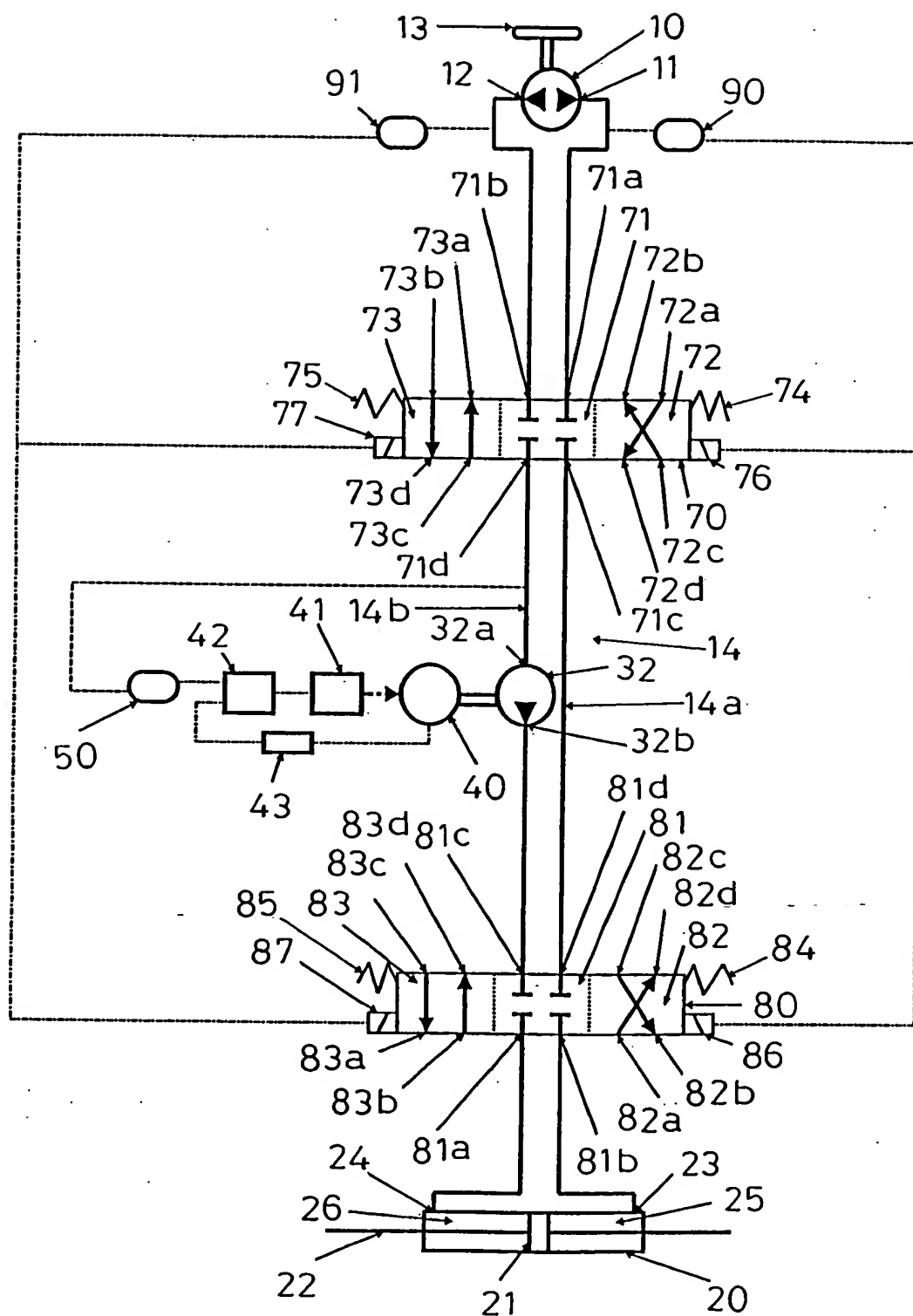


FIG. 15



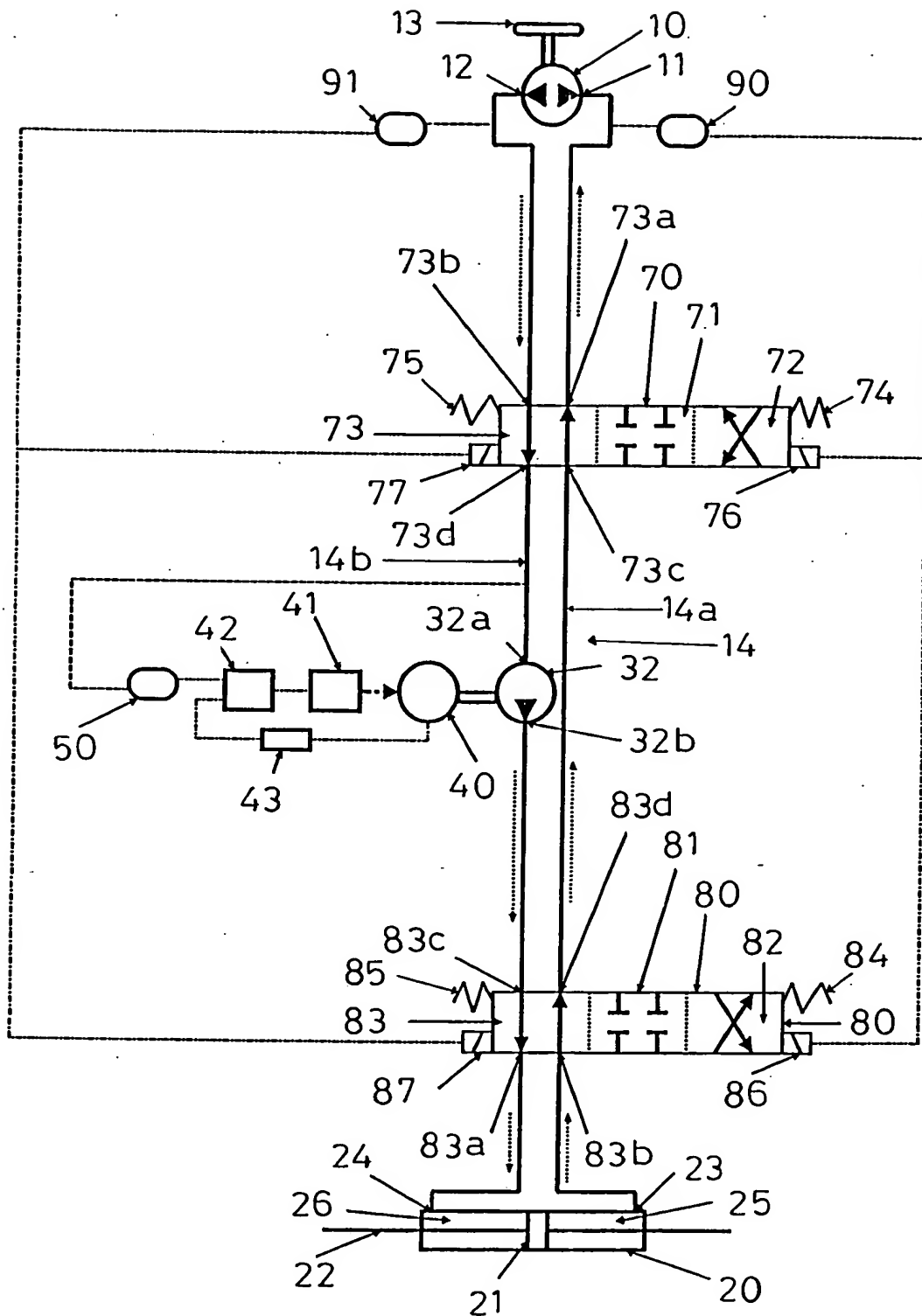


FIG. 16

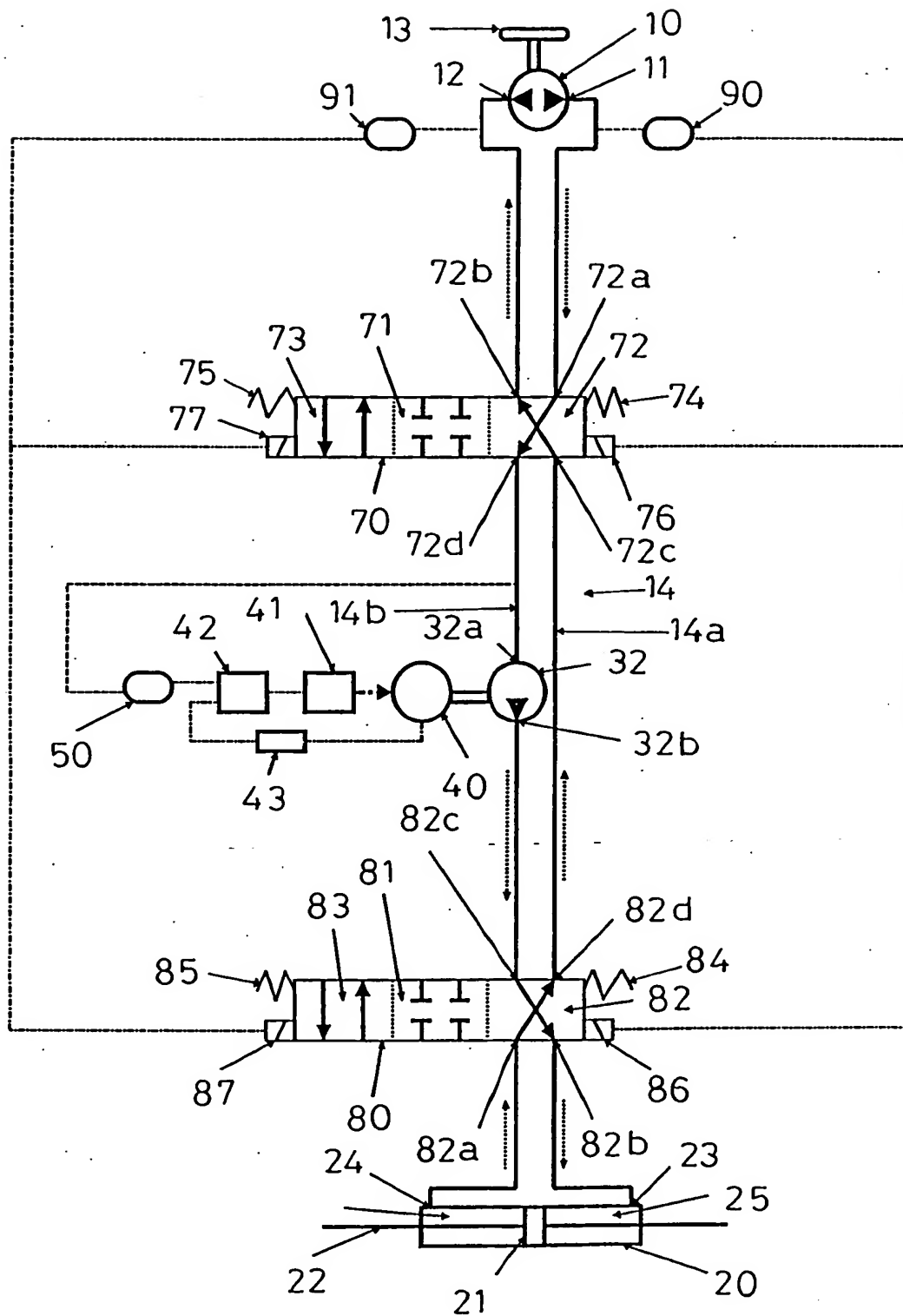


FIG. 17

10070917.030002

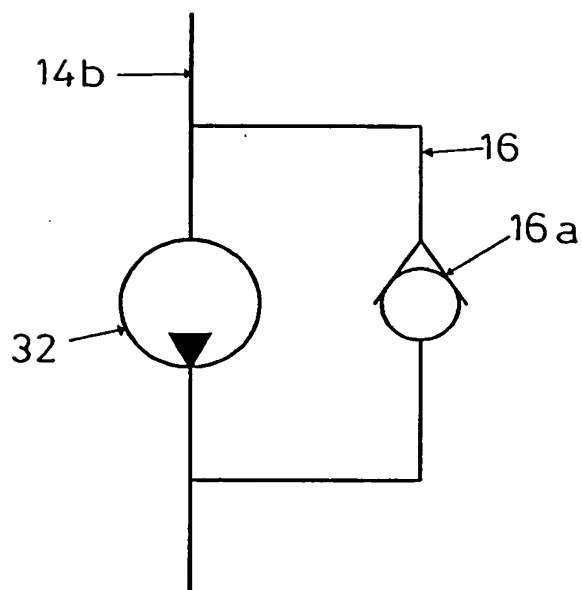


FIG.18

10070917 033002

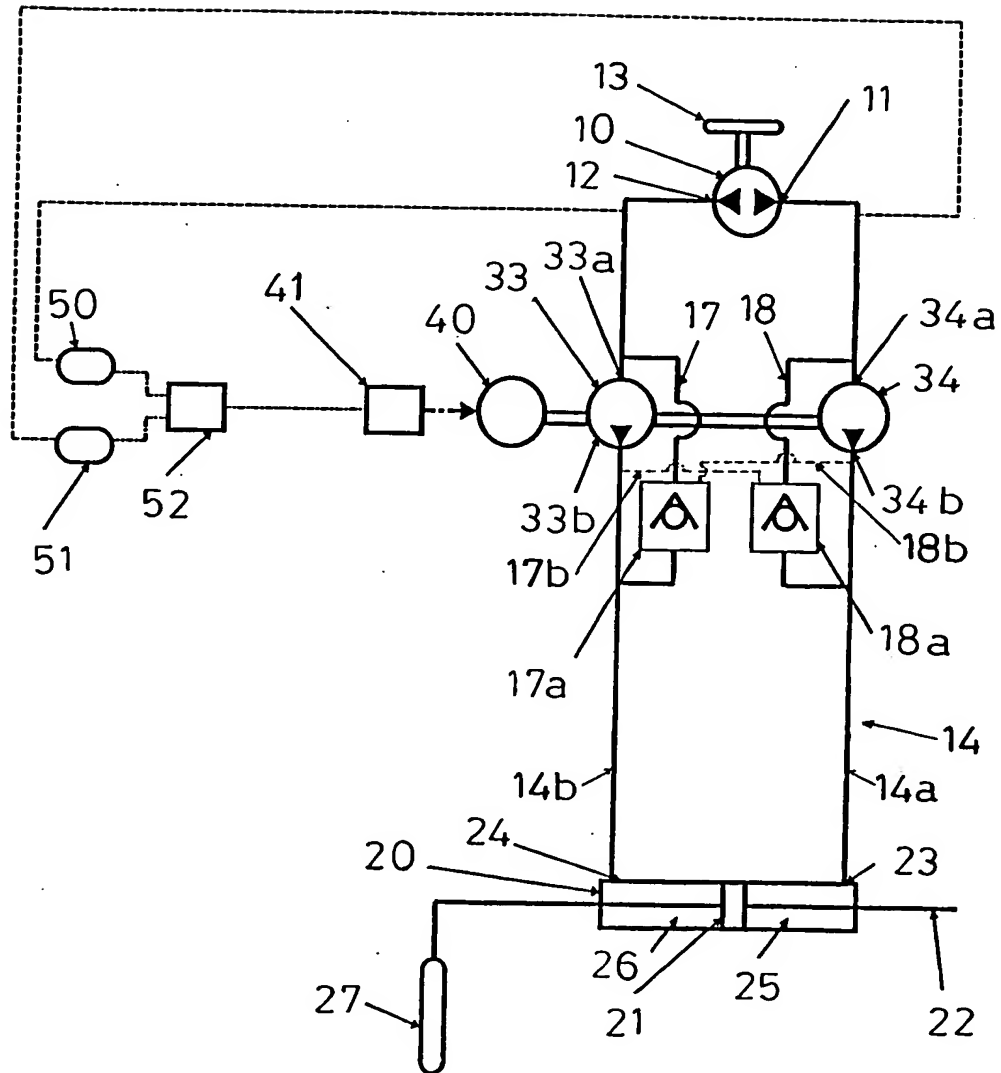


FIG. 19

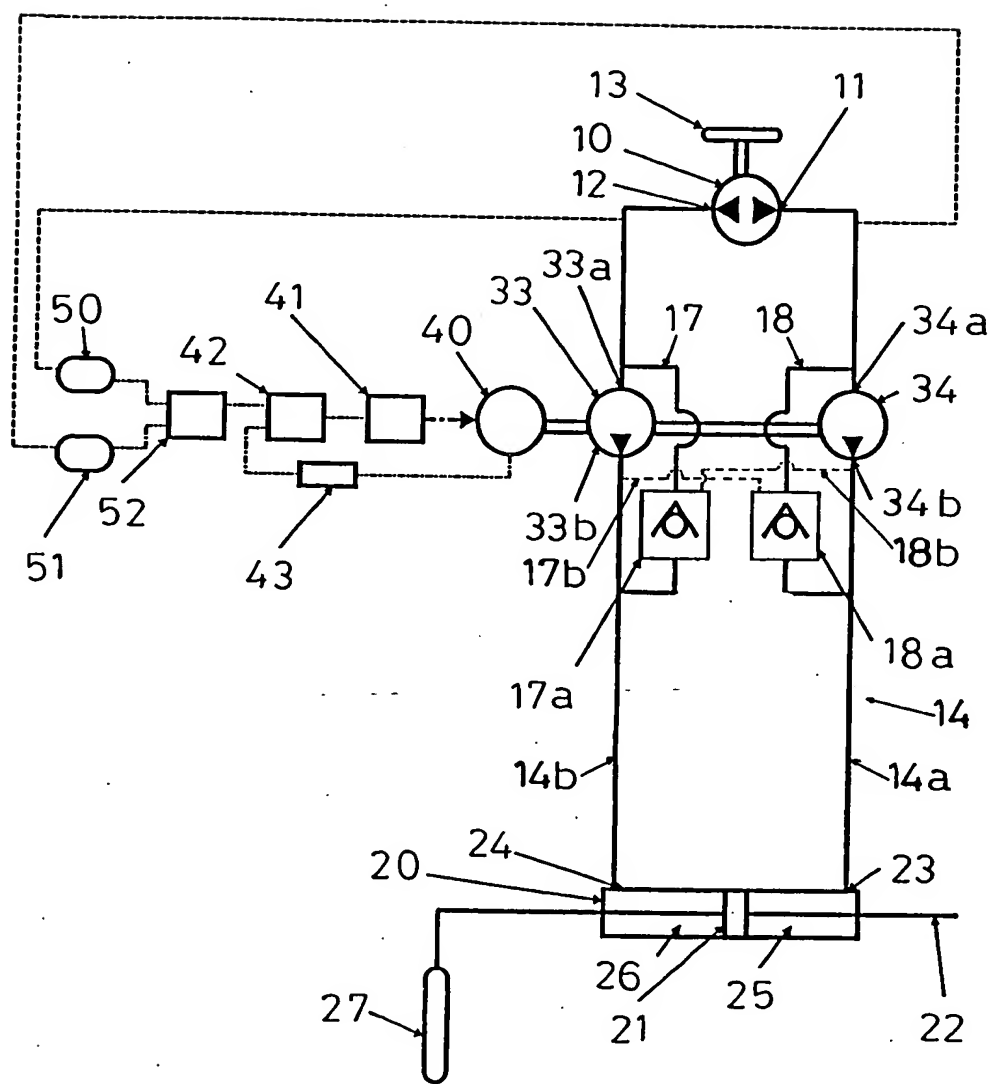


FIG. 20

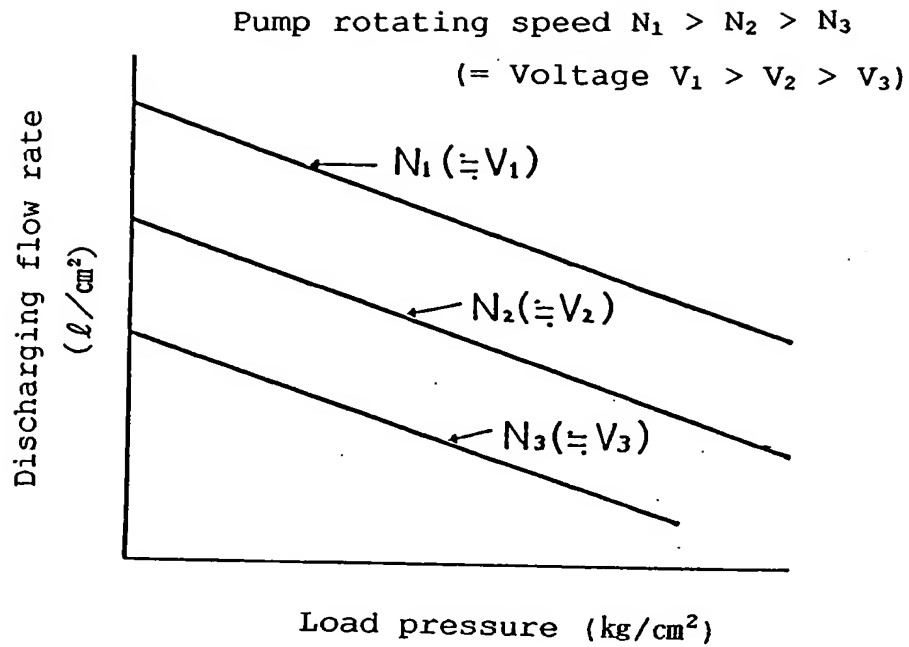


FIG. 21

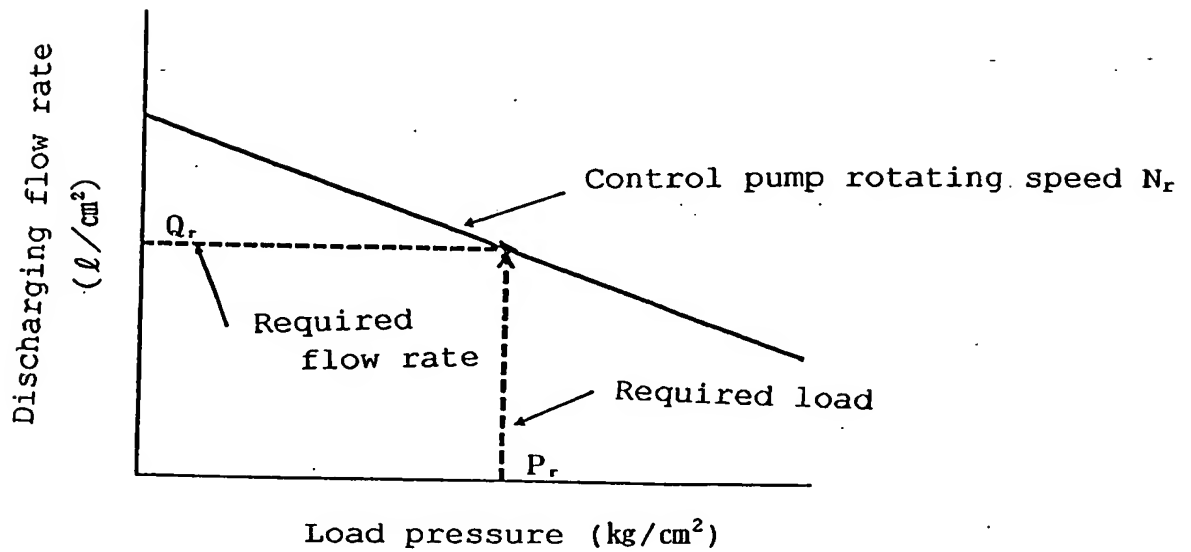
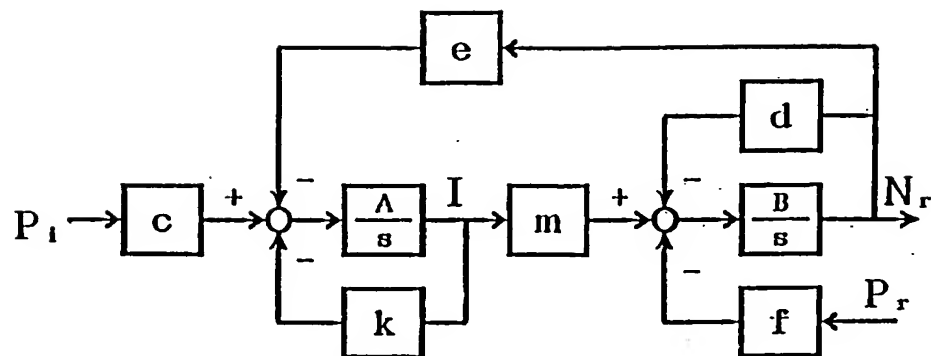


FIG. 22

22/28



$P_1$ : Differential pressure

$N_r$ : Rotating speed

$P_r$ : Load pressure

$A, B, d, e, f, m, k$ : Constants specific to apparatus

$c$ : Adjustable constant

$s$ : Laplacian

FIG. 23

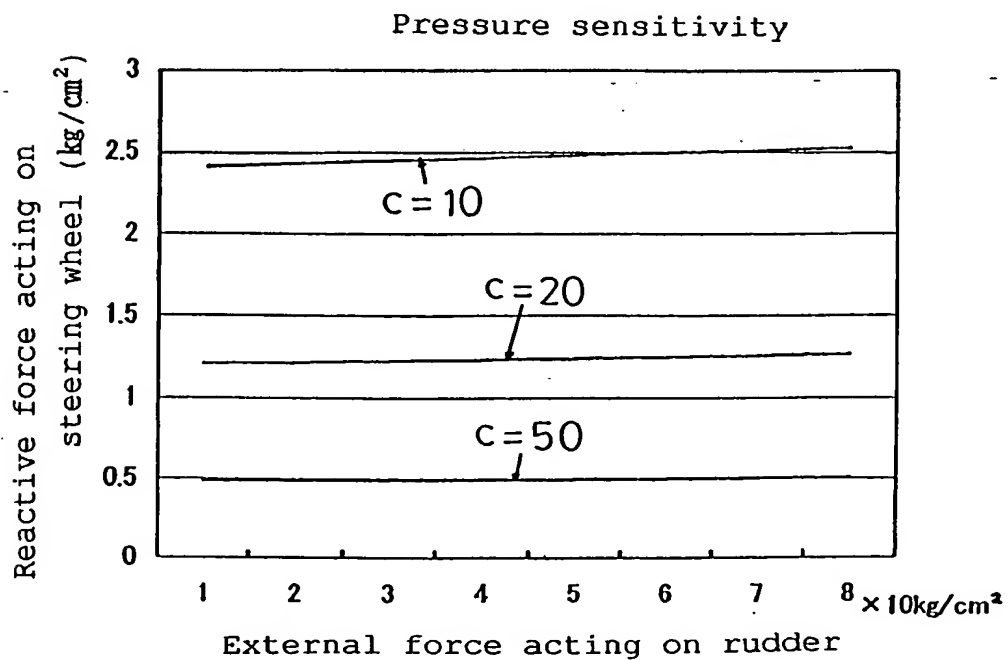
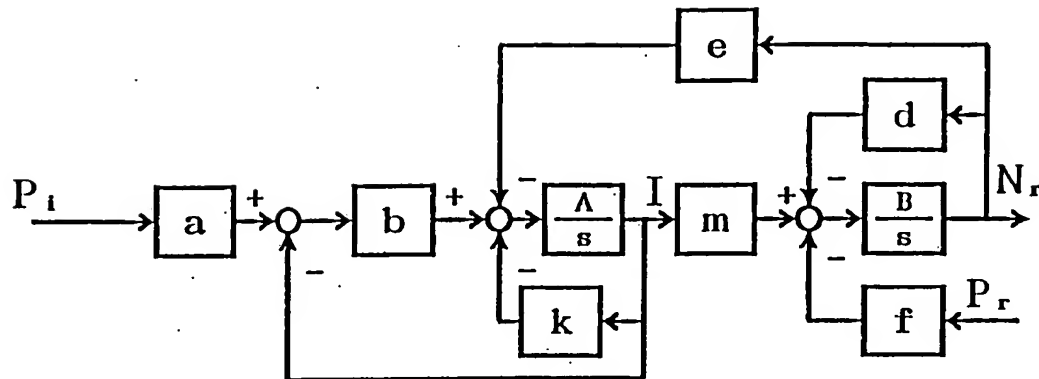


FIG. 24

10070917-032002

FIG. 25



$P_i$ : Differential pressure

$N_r$ : Rotating speed

$P_r$ : Load pressure

$A, B, d, e, f, m, k$ : Constants specific to apparatus

$a, b$ : Adjustable constant

$s$ : Laplacian

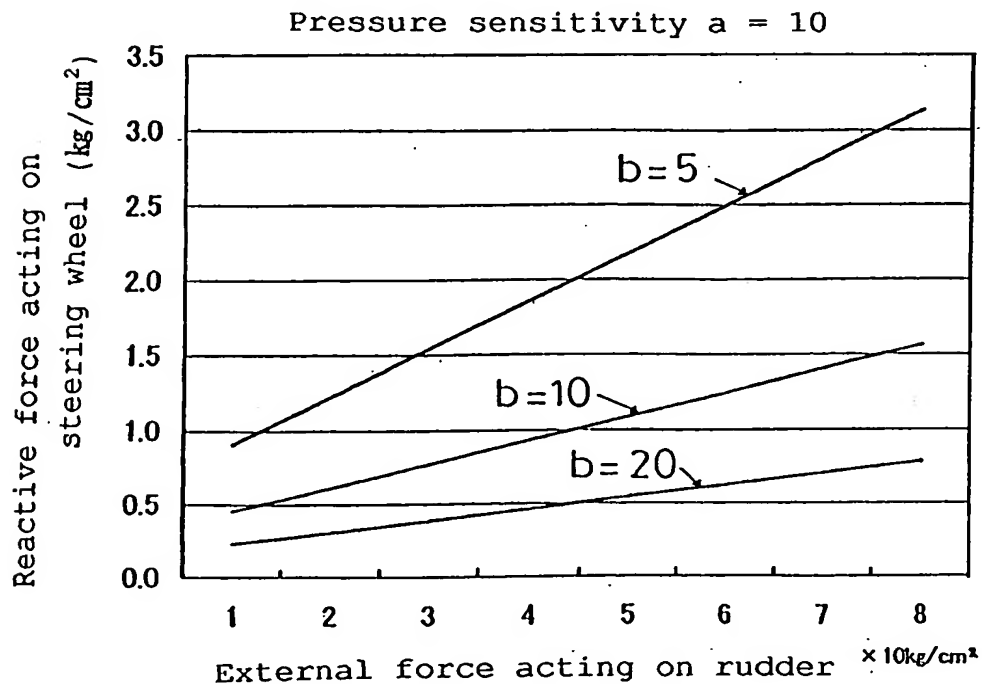


FIG. 26



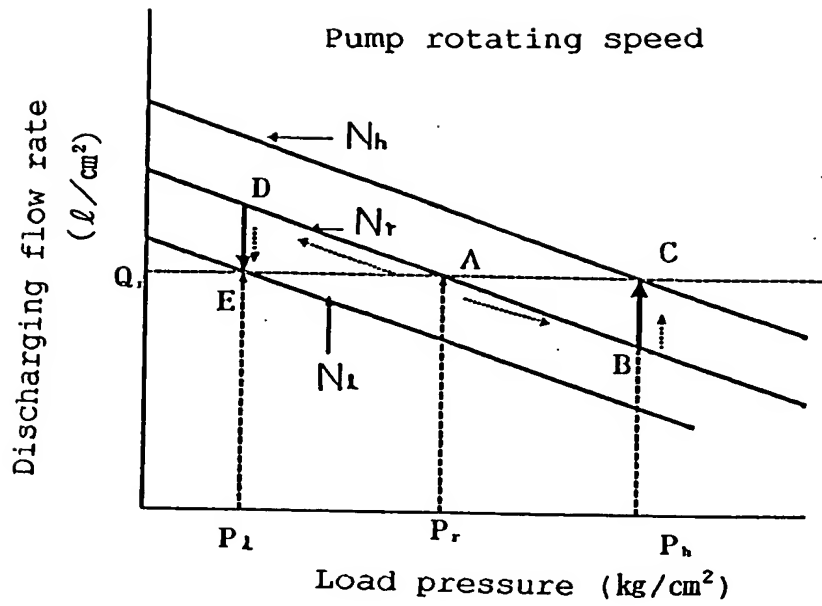


FIG. 27

200250 21502007

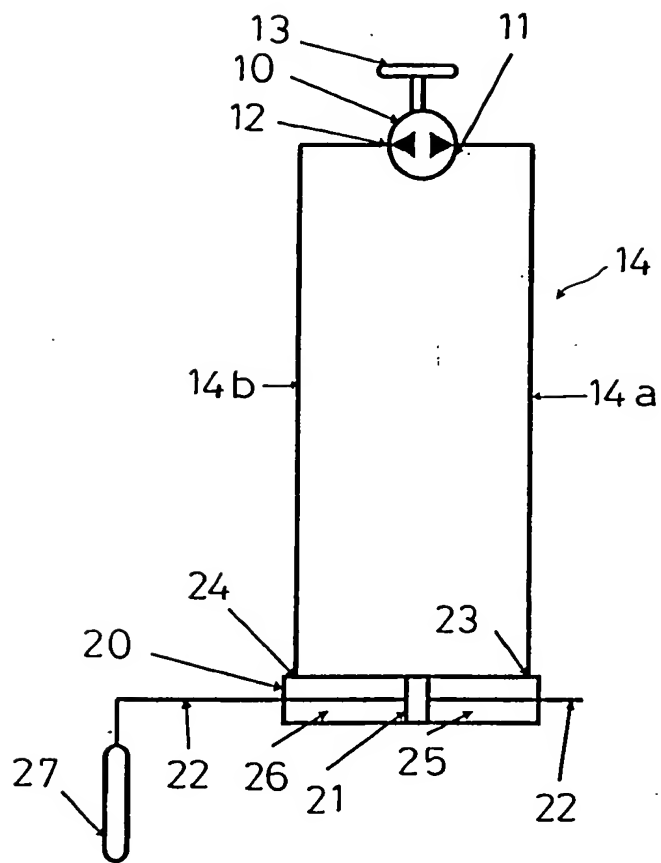


FIG. 28

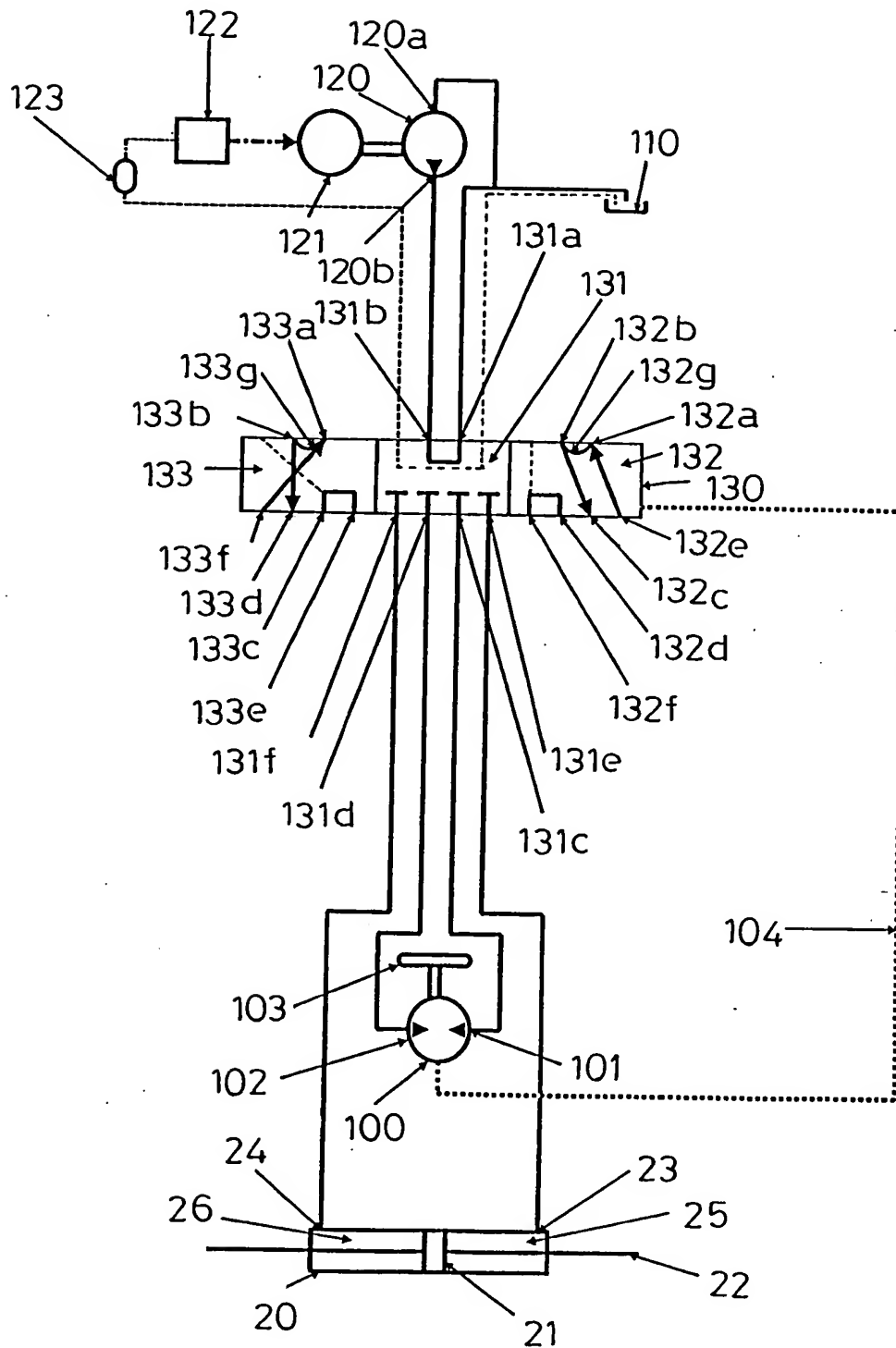


FIG. 29

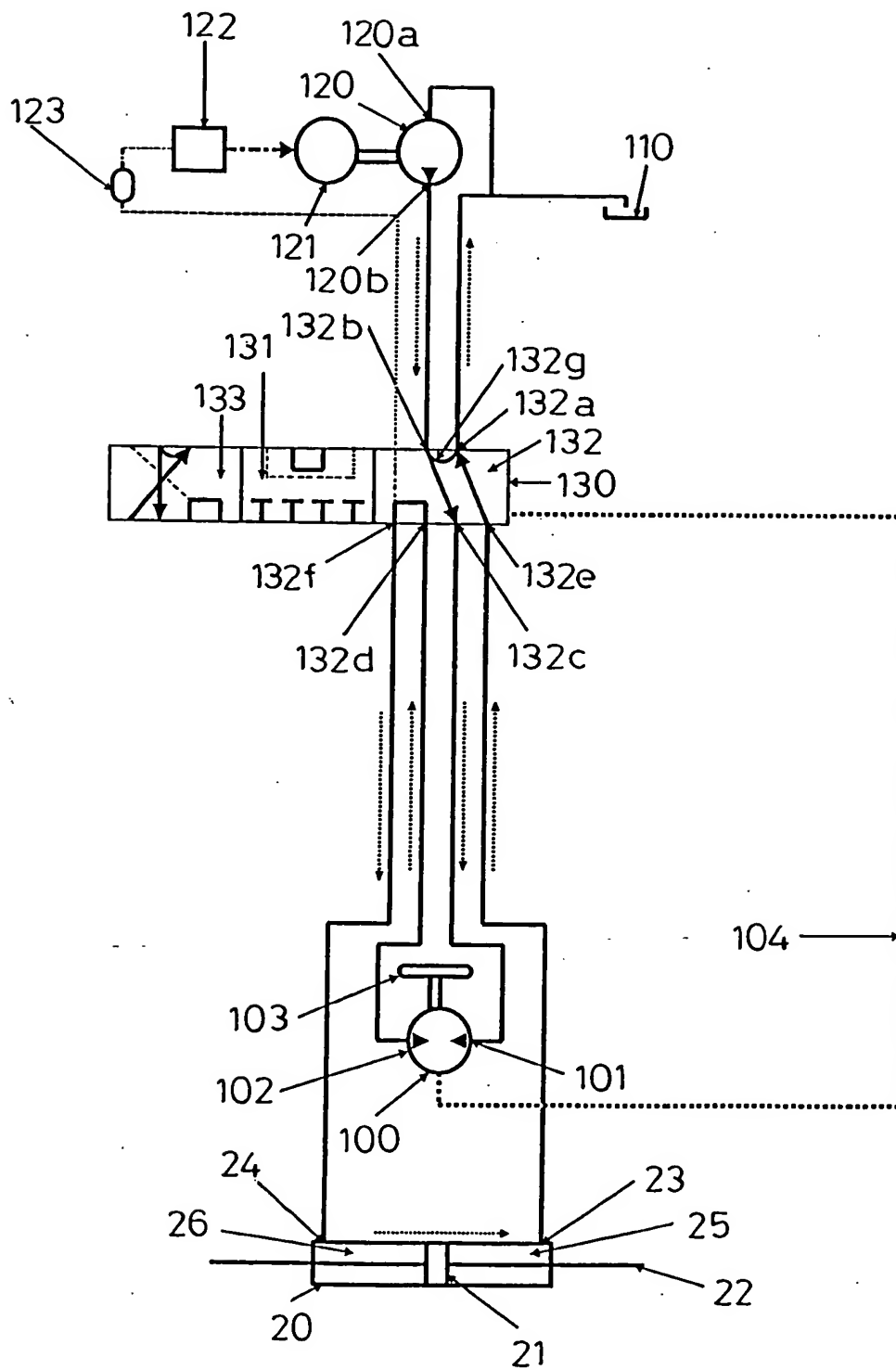


FIG. 30

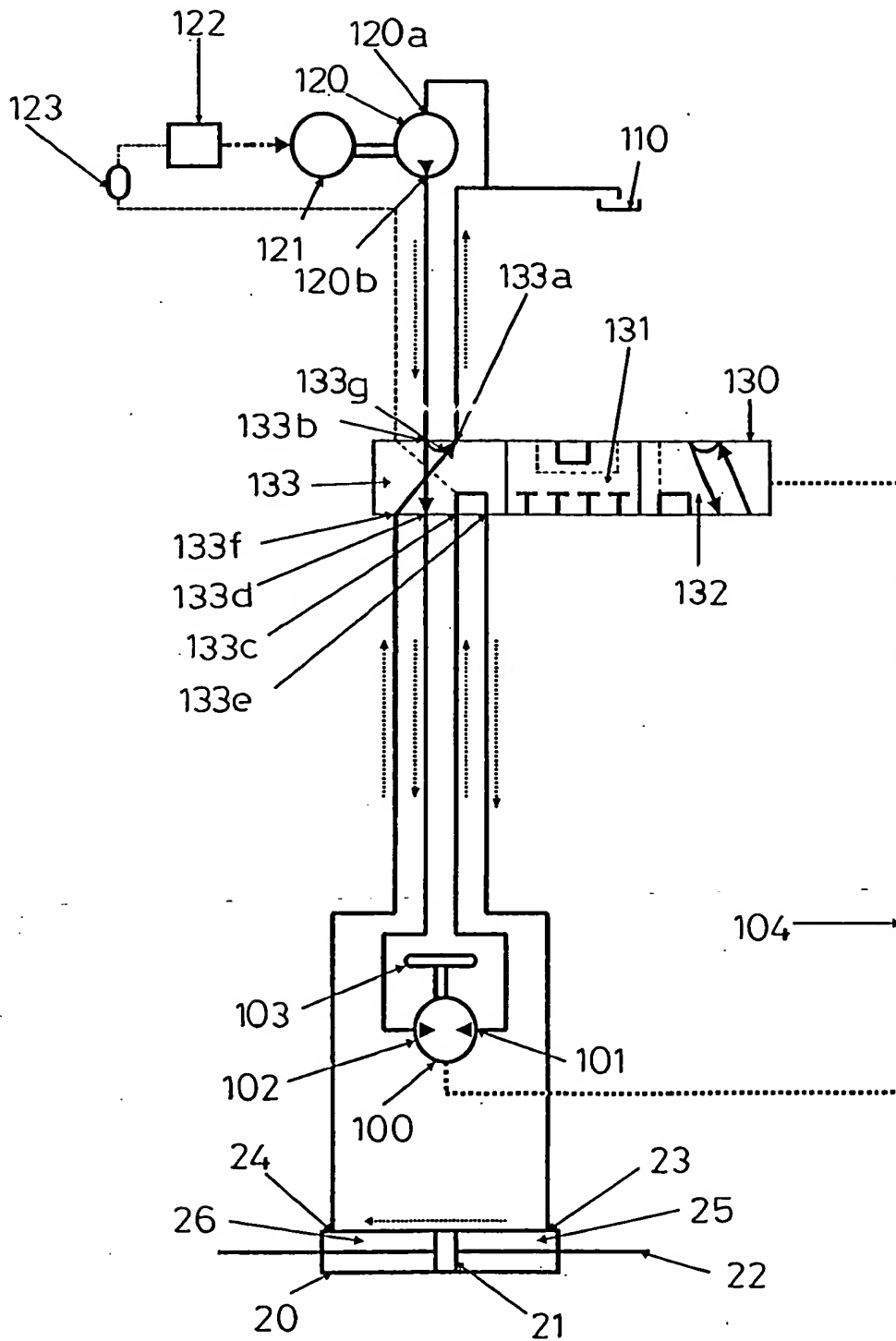


FIG. 31